

CLAIMS

What is claimed is:

1. A method of softening textile fibers comprising the steps of:

blending an Aloe Vera solution suitable for improving the comfort, softness, and texture of textile fibers, and capable of absorption directly into textile fibers;
impregnating textile fibers with said Aloe Vera solution; and
drying said impregnated textile fibers.

2. Softened textile fibers comprising:

textile fibers; and
impregnate said textile fibers with Aloe Vera solution according to the method of
claim 1.

3. A method of softening textile fibers comprising the steps of:

blending an Aloe Vera solution suitable for improving the comfort, softness, and texture of textile fibers, and capable of absorption directly into textile fibers;
applying a coating of said Aloe Vera solution onto the outer surface of a roller;
running textile fibers over the outer surface of said roller and through said coating
of said Aloe Vera solution;
impregnating said textile fibers with said Aloe Vera solution; and
drying said impregnated textile fibers.

4. Softened textile fibers comprising:

textile fibers; and

impregnate said textile fibers with Aloe Vera solution according to the method of
claim 3.

5. A method of softening textile fibers according to claim 3 comprising the further steps

of:

filling a reservoir with said Aloe Vera solution;

pumping said Aloe Vera solution from said reservoir through a tube and through a
means for application; and

applying a coating of said Aloe Vera solution onto said outer surface of said roller
using said means for application.

6. A method of softening textile fibers according to claim 5 comprising the further steps

of:

varying the volumetric flow rate of said Aloe Vera solution passing through said
means for application; and

metering the volumetric application of said Aloe Vera solution so as to
impregnate said textile fibers and derive consistent quality and not impair
the conversion of said textile fibers into yarn.

7. A method of softening textile fibers according to claim 6 comprising the further steps

of:

applying a coating of said Aloe Vera solution onto the outer surface of an upper

roller using said means for application;

locating a lower roller below said upper roller to sandwich said textile fibers

passing therebetween in constant contact with both rollers; and

propelling said upper roller and said lower roller to drive said textile fibers

forward.

8. Softened textile fibers comprising:

textile fibers; and

impregnate said textile fibers with Aloe Vera solution according to the method of

claim 7.

9. The method of claim 7, wherein said means for application being a nozzle.

10. A method of softening textile fibers according to claim 7 comprising the further step

of:

driving said textile fibers forward between said upper and said lower roller and

into a storage container.

11. A method of softening textile fibers according to claim 8 comprising the further step

of:

incorporating said method of softening textile fibers as part of a fiber stretch
break machine.

12. A method of softening textile fibers according to claim 8 comprising the further step
of:

locating said method of softening textile fibers on a fiber stretch break machine
immediately after the continuous filament fiber has been stretch broken
into smaller, discrete fiber lengths.

13. The method of claim 12, wherein said textile fibers being made from acrylic fibers.

14. The method of claim 12, wherein said textile fibers being made from wool fibers.

15. The method of claim 12, wherein said textile fibers being made from cotton fibers.

16. The method of claim 12, wherein drying said impregnated textile fibers at ambient air
temperature.

17. Softened textile fibers comprising:

textile fibers; and

impregnate said textile fibers with Aloe Vera solution according to the method of
claim 12.

18. A method of softening yarn comprising the steps of:

blending an Aloe Vera solution suitable for improving the comfort, softness, and texture of yarn, and capable of absorption directly into textile fibers; impregnating the yarn with said Aloe Vera solution; and drying said impregnated yarn.

19. Softened yarn comprising:

yarn; and
impregnate said yarn with Aloe Vera solution according to the method of claim
18.

20. A method of softening textile yarn comprising the steps of:

blending an Aloe Vera solution suitable for improving the comfort, softness, and texture of a yarn, and capable of absorption directly into the yarn; applying a coating of said Aloe Vera solution onto the outer surface of a roller; running the yarn over the outer surface of said roller and through the coating of said Aloe Vera solution; and
impregnating said yarn with said Aloe Vera solution; and
drying said impregnated yarn.

21. Softened yarn comprising:

yarn; and impregnate said yarn with Aloe Vera solution according to the method of claim 20.

22. A method of softening textile yarn according to claim 20 comprising the further steps of:

filling a reservoir with said Aloe Vera solution;

placing part of said outer surface of said roller into said Aloe Vera solution in said reservoir;

revolving said roller to apply said coating of said Aloe Vera solution on said outer surface of said roller;

driving said yarn forward at a rate that promotes optimal yarn impregnation; and replenishing constantly said coating of said Aloe Vera solution on said outer surface of said roller.

23. A method of softening textile yarn according to claim 22 comprising the further step of:

maintaining a constant amount of said Aloe Vera solution in said reservoir during the application procedure.

24. A method of softening textile yarn according to claim 22 comprising the further step of:

varying the propelling speed of said roller to optimize the absorption rate of said Aloe Vera solution into each type of yarn.

25. A method of softening textile yarn according to claim 24 comprising the further step of:

incorporating said method of softening textile yarn on a continuous steam bulker machine.

26. A method of softening textile yarn according to claim 24 comprising the further step of:

locating an Aloe Vera solution filled feeder bottle above said reservoir to gravity feed and consistently maintain said Aloe Vera level in said reservoir.

27. A method of softening textile yarn according to claim 25 comprising the further step of:

locating said method of softening textile yarn as the last operation at the end of said continuous steam bulker machine resulting in a uniformly consistent application of said Aloe Vera solution.

28. The method of claim 27, wherein drying said impregnated yarn at ambient air temperature.

29. The method of claim 28, wherein said yarn being made from acrylic fibers.

30. The method of claim 28, wherein said yarn being made from wool fibers.

31. The method of claim 28, wherein said yarn being made from cotton fibers.

32. The method of claim 28, wherein said yarn being made from two plies of twisted textile fibers.

33. The method of claim 28, wherein said yarn being made from three plies of twisted textile fibers.

34. The method of claim 28, wherein said yarn being made from four plies of twisted textile fibers.

35. Softened yarn comprising:

yarn; and

impregnate said yarn with Aloe Vera solution according to the method of claim 28.